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Eorba, No 59, 1949.

PRODUCTION OF DRUGS AND MEDICAL. EQUIPMENT IN YUGOSLAVIA

MOST DRUGS IN PRODUCTION -- Box a, No 59, 10 Mar 49

The "Pliva" medicine factory, which fulfilled its 1948 plan 49 days ahead of schedule, is one of the best pharmaceutical plants in Yugoslavia Parallel with remodelling of its old buildings and construction of new ones, this factory has been modernizing its production. The Twornica Hidraulicnih Strojeva (Factory for Hydraulic Machinery) has made equipment for producing nicotine at "Pliva," and the "Jedinstvo" factory has completed equipment for manufacturing other drugs.

The installation of new equipment and the training of personnel raised 1948 production over 500 rescent as compared with 1945, and production in 1949 will be 11 times greater than in 1945.

During 1947 and 1948, this factory produced 14 new medicinal preparations which had never been made in Yugoslavia before. It is now producing medicines for malaria, rhomatism, syphilis, nerve diseases, gastric ulcaro, and irrulatory diseases. One of the greatest successes of the factory is the production of crystalline insulin, as the result of research over the last 2 years by an engineer employed at "Pliva."

The factory he succeeded in substituting certain products now made regularly by Ingoslav industry for foreign raw materials. In place of bensol the factory now uses benxine, and in place of chloroform Yugoslav to obloroethane is used.

The section for producing reagents has produced 45 different products for analytical chemistry for the use of institutes, laboratories, and industry.

A vorker at the factory has developed an improved method of processing apimal glands which reduces waste 50 percent.

MEN HORSONE PREPARATIONS AND SERUMS -- Borba, No 59, 10 Mar 49

The "Prolek" medicine factory now produces medicines, vaccines, and four kinds of serums, including antidiphtheria and antitetanus serums. It also

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produces [multivalent ?] vaccines for inoculation against typhus and diphtheria.

The medicine section produces disinfectants and insulin. In January 1948 it began production of hormons and organotheraneutic preparations for use in treeting enforcine disorders. These preparations, which had never been produced in Ingoslavia before, are now the principal products of the medicine section. At first it was difficult to obtain enough animal glands, because slaughterhouse workers were not used to saving them and because of lack of refrigeration in slaughterhouses. This year a refrigerator car has been obtained, and contracts have been signed under which slaughterhouses will deliver 80 percent of the glands of animals slaughtered.

Twenty-seven different medicines were manufactured by the medicine section in 1948. Right of the 15 hormone and organitherapeutic preparations which, under the Five-Year Plan, are to be manufactured by the end of 1951 are already being made at "Prolek."

Last year, 20 new medicines, which always had been imported previously, were made at this factory. Among the most important medicines made here, besides insulin, are heparon (a liver extract; for anemia, and cortin for endocrine disorders.

MEDICINE FACTORY EXPANDING -- Borba, No 59, 10 Mar 49

Ljubljana -- The Lek" (Medicine) factory produced ten times more in 1948 than before the war. By 1946 its production was twice the prewar figure.

A new section has been added to the plant at Ljubljana, and another was begun in 1948 at Menges, where organic salts and bismuth salts will be prepared. Several new machines for special preparations have been added. The section at Erastnik is the only shop of the prewar plant still in operation.

Products of the factory include "Baldin," for use in disorders of the nervous system; "Schalin," for use in obstetrics, and 'Ferosov," an iron preparation for the blood. Cher contries are interested in this factory's extract from the root of the eagle fern, which is used for the treatment of tapeworm. Medicines for cardiopathy and hyperacidity of the stomach, ether, and other products also are manufactured here.

Most of the preparations made at "Lek" are produced from Yugoslav raw materials. Only a few chemicals are imported.

RESEARCE OF NEW MEDICINES -- Borba, No 59, 10 Mar 49

Zegreb -- "Picnir," the fastory for pharmaceutical and dietetic products, is now producing five times more than before the war. Its 1948 plan, which was 100 percent greater than that of 1947, was fulfilled 14 days ahead of schedule.

The factory supplies all Yugoslav republics with products for supplementary feeding of infants. Essearch is now in progress toward early production of carob scal, from which an excellent medicine for infantile intestinal disorders will be obtained, and toward preparation of extracts from brewers' yeast.

As soon as the factor was taken over by the state, new equipment was installed. The building of a new boiler room alone trabled the factory's capacity. All the old, worn-out machinery was rebuilt and is now in operation.

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MORE DENTAL PREPARATIONS -- Lurba, No. 59, 10 Mar 49

The "Gelenika" factory for rharmaceutical products produced $2\frac{1}{2}$ times more in 1948 than in 1945 and in 1949 will produce six times more. The factory produced 221 dental preparations and products in 1948 as compared with 193 in 1947. In 1948, "Gelenika" manufactured injection preparations for vericose veins, using Yugoslav materials except for fish oil. A medicine for intestinal infection is prepared by an apparatus made in Yugoslavia.

Dental products made at "Galenika" include preparations for the treatment and repair of teeth, medicines, plastics and thermoplastics, wax, temperary cement, and other products, many of which were never made in Yugoslavia before. Most raw materials used were produced in Yugoslavia.

Research is now in progress on 35 items for use in dentistry, and another 41 are planned for 1949.

MEDICAL EQUIPMENT MADE IN YUGOSLAVIA -- Borba, No 59, 10 Mar 49

Production is already under way in the unfinished building of the "Sutjeska" factory for medical equipment. This is now one of the largest factories of its kind in Yugoslavia. Production in 1948 was nine times greater that in 1946 and in 1949 will be 12 times greater. Of the 600 most important standard instruments, the factor; will produce 370 during 1949.

All apparatus in the factory is new. Technical processes will have to be worked out for each product, as there is no similar factory in Yugoslavia to offer the benefit of experience.

During 1949, a complicated apparatus to control heart action during narcosis will be serially produced. The prototype was developed in 1948 in the Construction Bureau of the General Administration for Medical Production. An autoclave heated by wood, to be used for sterilizing bandages in areas where there is no electricity, is being developed by Yugoslav technicians. Work also is in progress on instruments for chest and brain operations, on driers which are capable of reaching a temperature of 250 degrees centigrade, and on an apparatus for distilling water. Sorial production of the "Fantostat," an apparatus for electric lighting and galvanization, the prototype of which was made in 1948, is now in progress. A number of instruments for general medicine and surgery are also being made.

During 1949, the prototype of a universal operating table will be developed and serial production of apparatus for sterilizing bandages will be started.

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